IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Phillip STARK, Guy A. ROSSI, Hamid R. MOJAZZA, Ross HAGHIGHAT and

Peter SCHULER

WARNING: 37 CFR 1 41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors

(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1 63, except as provided for in § 1.53(d)(4) and § 1 63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1 17(i) is filed supplying or changing the name or names of the inventor or inventors."

For (title): TEMPERATURE-CONTROLLED INDUCTION HEATING OF POLYMERIC MATERIALS

CERTIFICATION UNDER 37 C.F.R. 1.10*

(Express Mail label number is mandatory.) (Express Mail certification is optional)

I hereby certify that this correspondence and the documents referred to as attached therein are being deposited with the United States Postal Service on this date <u>May 1, 2001</u>, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number <u>EL436216676US</u> addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Norah C. Sullivan

(type or print name of person mailing paper)

Signature of person mailing pape

WARNING:

Certificate of mailing (first class) or facsimile transmission procedures of 37 CFR. 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence

*WARNING:

Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing, 37 C.F.R. 1.10(b).

"Since the filing of correspondence under § 1 10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition" Notice of Oct 24, 1996, 60 Fed. Reg 56,439, at 56,442



Type of Application

This new application is for a(n)



(check one applicable item below)

*	[X]	Original (nonprovisional)
	[]	Design
	[]	Plant
WARNI	ING:	Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application.
WARNI	NG:	Do not use this transmittal for the filing of a provisional application.
NOTE:	TRANSA	the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION AITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT ATION OF THE FILING OF THIS CONTINUATION APPLICATION.
	[]	Divisional.
	[]	Continuation.
	[X]	Continuation-in-part (C-I-P).
2.	Benefi	t of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121)
NOTE:	A nonpr applicate nonprove internati at least of claimed	t of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121) ovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional sions or copending international applications designating the United States of America. In order for a isional application to claim the benefit of a prior filed copending nonprovisional application or copending onal application designating the United States of America, each prior application must name as an inventor one inventor named in the later filed nonprovisional application and disclose the named inventor's invention in at least one claim of the later filed nonprovisional application in the manner provided by the first oth of 35 U.S.C. 112. Each prior application must also be.
	A nonpr applicate nonprove internati at least of claimed	covisional application may claim an invention disclosed in one or more prior filed copending nonprovisional ions or copending international applications designating the United States of America. In order for a isional application to claim the benefit of a prior filed copending nonprovisional application or copending onal application designating the United States of America, each prior application must name as an inventor one inventor named in the later filed nonprovisional application and disclose the named inventor's invention in at least one claim of the later filed nonprovisional application in the manner provided by the first
	A nonpr applicate nonprove internati at least of claimed	covisional application may claim an invention disclosed in one or more prior filed copending nonprovisional ions or copending international applications designating the United States of America. In order for a isional application to claim the benefit of a prior filed copending nonprovisional application or copending onal application designating the United States of America, each prior application must name as an inventor one inventor named in the later filed nonprovisional application and disclose the named inventor's invention in at least one claim of the later filed nonprovisional application in the manner provided by the first och of 35 U.S.C. 112. Each prior application must also be. (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating
	A nonpr applicate nonprove internati at least of claimed	covisional application may claim an invention disclosed in one or more prior filed copending nonprovisional ions or copending international applications designating the United States of America. In order for a isional application to claim the benefit of a prior filed copending nonprovisional application or copending onal application designating the United States of America, each prior application must name as an inventor one inventor named in the later filed nonprovisional application and disclose the named inventor's invention in at least one claim of the later filed nonprovisional application in the manner provided by the first och of 35 U.S.C. 112. Each prior application must also be. (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
	A nonpr applicate nonprove internati at least of claimed	covisional application may claim an invention disclosed in one or more prior filed copending nonprovisional ions or copending international applications designating the United States of America. In order for a isional application to claim the benefit of a prior filed copending nonprovisional application or copending conal application designating the United States of America, each prior application must name as an inventor one inventor named in the later filed nonprovisional application and disclose the named inventor's invention in at least one claim of the later filed nonprovisional application in the manner provided by the first obtained of 35 U.S.C. 112. Each prior application must also be. (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or (ii) Complete as set forth in § 1 51(b), or

NOTE If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional

application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

WARNING:

If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c) (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed Reg 20,195, at 20,205

WARNING:

When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).

[] The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

3. Papers Enclosed

- A. Required for Filing Date under 37 C.F.R. 1.53(b) (Regular) or 37 C.F.R. 1.153 (Design) Application
 - 38 Pages of Specification
 - 14 Pages of Claims
 - 19 Sheets of Drawing
 - [X] Formal
 - [] Informal

B. Other Papers Enclosed

1	Pages of Abstract
	Other

WARNING:

DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 CFR. 184, see Notice of March 9, 1988... (1990 O G 57-62).

NOTE. "Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawing a minimum distance of 1.5 cm (5/8 inch) down from the top of the page "37 C F R 1.84(c))

(complete the following, if applicable)

	[]	The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).				
4.	Add	itional Papers Enclosed				
	[]	Preliminary Amendment Information Disclosure Statement (37 C.F.R. 1.98) Form PTO-1449 Citations Declaration of Biological Deposit Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.				
	[] []	Authorization of Attorney(s) to Accept and Follow Instructions from Representative Special Comments Other:				
5.	Decla	aration or Oath				
NOTE:	TE: A newly executed declaration is not required in a continuation or divisional application provided the prior nonprovisional application contained a declaration as required, the application being filed is by all or fewer than the inventors named in the prior application, there is no new matter in the application being filed, and a copy of the executed declaration filed in the prior application (showing the signature or an indication thereon that it was sign is submitted. The copy must be accompanied by a statement requesting deletion of the names of person(s) who are inventors of the application being filed. If the declaration in the prior application was filed under § 1.47 then a copy that declaration must be filed accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning persunder § 1.47 has subsequently joined in a prior application, then a copy of the subsequently executed declaration to be filed. See 37 CFR 1.63(d).					
NOTE:	togethe	pration filed to complete an application must be executed, identify the specification to which it is directed, we each inventor by full name, including the family name, and at least one given name without abbreviation are with any other given name or initial, and the residence, post office address and country of citizenship of each are and state whether the inventor is a sole or joint inventor 37 CFR 1.63(a)(1)-(4)				
	[X]	Enclosed (unexecuted copy)				
	[]	 [] inventor(s). [] legal representative of inventor(s). 37 CFR 1.42 or 1.43. [] joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached. [] This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 13 below for fee. Not Enclosed. 				
NOTE:	Where t	the filing is a completion in the US of an International Application, or where the completion of the US tion contains subject matter in addition to the International Application, the application may be treated as a				

continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION

TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED

[X]	Application is made by a person authorized under 37 C.F.R. 1.41(c) on behalf of
	all the above named inventor(s).

(The declaration or oath, along with the surcharge required by 37 CFR 1.16(e), can be filed subsequently).

NOTE:	It is imp	ortant the	at all the co	orrect inventor(s) are	e named for filin	ıg under 37 (CFR 1.41(c) ai	nd 1 53(b)	
			[]	Showing that the (not required un			on. 37 CFR	1.41(d))	
6.	Invent	torship	Stateme	ent					
WARNING:		If the no	amed inven arious claii	ntors are each not the ms at the time the las	e inventors of al. St claimed inven	l the claims a tıon was maa	n explanation le, should be s	, including the submitted.	ownership
The in	ventorsh	ip for a	ll the clai	ims in this applica	ation are:				
	[]	The sa	ime.						
					or				
	[]		t claimed is subm	An explanation, in a submitted. submitted.		ownership	of the vario	ous claims a	t the time
7.	Langu	age							
NOTE:	translati	on of the i	non-Englis	igned oath or declarc th language applicati application, or withir	ion and the proc	cessing fee of	\$130.00 requ	ared by 37 CFI	English R 1.17(k) is
	[X] []	English Non-E	nglish	ached translation	includes a st	atement th	at the trans	lation is acc	urate. 37
3.	Assign	ment	0.1.10	1.02(u).					
	[]	An ass:	ignment (of the invention t	0			·	
		[]	(DOCU	ned. A separate [IMENT) ACCOM FORM PTO 1595	IPANYING	NEW PAT			,
		[]	was file will foll	ed in the parent ar low.	oplication				

NOTE: "If an assignment is submitted with a new application, send two separate letters-one for the application and one for the assignment" Notice of May 4, 1990 (1114 O.G. 77-78).

WARNING:
// / AAAA 1211 CF

A newly executed "STATEMENT UNDER 37 CFR 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.

9. Certified Copy

Certified	copy(ies)	of application	n(s)
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Country	Appln. No.	Filed

from which priority is claimed

	is enclosed.
[]	was filed.
[]	will follow.

NOTE: The foreign application forming the basis for the claim for priority must be referred to in the oath or declaration. 37 CFR 1.55(a) and 1.63.

NOTE: This item is for any foreign priority for which the application being filed directly relates. If any parent U.S. application or International Application from which this application claims benefit under 35 U.S.C. 120 is itself entitled to priority from a prior foreign application, then complete tem 18 on the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

10. Fee Calculation (37 C.F.R. 1.16)

A. [X] Regular application

CLAIMS AS FILED							
Claims	Number Filed	Basic Fee Allowance	Number Extra	Rate	Basic Fee 37 C.F.R. 1.16(a) \$710.00		
Total Claims (37 CFR 1.16(c))	101	- 20 =	81	x \$ 18.00	\$1,458.00		
Independent Claims (37 CFR 1.16(b))	11	- 3 =	8	x \$78.00	\$624.00		
Multiple Dependent Claim(s), if any (37 CFR 1.16(d))			+	\$270.00	\$0		

[]	Amendment cancelling extra claims is enclosed.
[]	Amendment deleting multiple-dependencies is enclosed.

[] Fee for extra claims is not being paid at this time.

NOTE:	If the fee expiration 1.16(d).	es for extr on of the ti	ra claims are not po me period set for re	aid on filin esponse by	ng they must be paid or the cl the Patent and Trademark Of	aims cance fice in any	elled by amendn notice of fee de	nent, prior to the ficiency 37 CFR
	,				Filing Fee Calculation	1	\$_2,792.00	0
	В.	[]	Design applic (\$330.00—37		6(f))			
					Filing Fee Calculation	l	\$	
	C.	[]	Plant application (\$540.00—37		6(g))			
					Filing Fee Calculation	l	\$	
11.	Small	Entity S	Statement(s)					
	[]	Statem attache		is a filir	ng by a small entity un	der 37 C	CFR 1.9 and	1.27 is (are)
WARNING:		"Status as a small entity must be specifically established in each application or patent in which the status is available and desired. Status as a small entity in one application or patent does not affect any other application or patent, including applications or patents which are directly or indirectly dependent upon the application or patent in which the status has been established. The refiling of an application under § 1.53 as a continuation, division, or continuation-in-part (including a continued prosecution application under § 1.53(d)), or the filing of a reissue application requires a new determination as to continued entitlement to small entity status for the continuing or reissue application. A nonprovisional application claiming benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) of a prior application, or a reissue application may rely on a statement filed in the prior application or in the patent if the nonprovisional application or the reissue application includes a reference to the statement in the prior application or in the patent or includes a copy of the statement in the prior application or in the patent and status as a small entity is still proper and desired. The payment of the small entity basic statutory filing fee will be treated as such a reference for purposes of this section." 37 CFR 1.28(a)(2).						
			(com	plete the	following, if applicable)			
	[]	Status a	as a small entity		med in prior application which benefit is being cla			, filed tion under:
		35 U.S.	C. § []	119(e), 120, 121, 365(c),				
		and wh	ich status as a sr	nall entit	y is still proper and desir	ed.		
		[]	A copy of the s	tatement	in the prior application i	is include	d.	
		Filing F	Fee Calculation ((50% of A	A, B or C above)	\$		

13.

NOTE: Any excess of the full fee paid will be refunded if a small entity status is established refund request are filed within 2 months of the date of timely payment of a full fee. The two-month period is not extendable under § 1 136. 37 CFR 1.28(a).

12. Request for International-Type Search (37 C.F.R. 1.104(d))

(complete, if applicable)

[]	Please prepare an international-type search report for this application at the time whe national examination on the merits takes place.					
Fee P	ayment	Being Made at This Time				
[X]	Not Enclosed					
	[X]	No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. 1.1	6(e) can be paid subsequently.)			
[]	Enclo	Enclosed				
	[]	Filing fee	\$			
	[]	Recording assignment (\$40.00; 37 C.F.R. 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION.")	\$			
	[]	Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. 1.47 and 1.17(i))	\$			
	[]	For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. 1.52(d) and 1.17(k))	\$			
	[]	Processing and retention fee (\$130.00; 37 C.F.R. 1.53(d) and 1.21(l))	\$			
	[]	Fee for international-type search report (\$40.00; 37 C.F.R. 1.21(e))	\$			

NOTE: 37 CFR 1.21(1) establishes a fee for processing and retaining any application that is abandoned for failing to complete the application pursuant to 37 CFR 1.53(f) and this, as well as the changes to 37 CFR 1.53 and 1.78(a)(1), indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid, or the processing and retention fee of § 1.21(1) must be paid, within 1 year from notification under § 53(f).

14.	Method of Payment of Fees			
	[]	Check in the amount of \$		
	[]	Charge Account No in the amount of \$ A duplicate of this transmittal is attached.		
NOTE:	Fees sho	ould be itemized in such a manner that it is clear for which purpose the fees are paid. 37 CFR 1.22(b).		
15.	Autho	Authorization to Charge Additional Fees		
WARNING:		If no fees are to be paid on filing, the following items should \underline{not} be completed.		
WARNING:		Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized.		
	[]	The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No		
NOTE:	Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must of paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO notice of fee deficiency (37 CFR 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, possibly when dealing with amendments after final action.			
		 [] 37 C.F.R. 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application) [] 37 CFR 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a). [] 37 C.F.R. 1.17 (application processing fees) 		
NOTE:	requiring extension required	"A written request may be submitted in an application that is an authorization to treat any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or a required extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition of the fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition of the feet will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition for an extension of time fees will be treated as a constructive petition fees will be treated as a construc		

reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in \S 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 CFR 1.136(a)(3).

> 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b))

Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of NOTE. Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance 37 CFR 1.311(b)).

NOTE: 37 CFR 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying, . . issue fee." From the wording of 37 CFR 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

16. Instructions as to Overpayment

NOTE:	" Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, not will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 CFR 1 26(a).					
	[]	Credit Account No	04-1105			
	[]	Refund				
Reg. N	o. 38,22	27	SIGNATURE OF PRACTITIONER Cara Z. Lowen (type or print name of practitioner)			
			Dike, Bronstein, Roberts & Cushman Intellectual Property Patent Practice EDWARDS & ANGELL, LLP			
Tel. No	o.: (617)	523-3400	130 Water Street P.O. Address			
Custon	ner No.:		Boston, MA 02109			

[X]

This transmittal ends with this page.

[

[]	Incorp	corporation by reference of added pages		
	(check the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED)			
	[]	Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed Number of pages added		
	[]	Plus Added Pages for Papers Referred to in Item 4 Above Number of pages added		
	[]	Plus added pages deleting names of inventor(s) named on prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application. Number of pages added		
	[]	Plus "Assignment Cover Letter Accompanying New Application" Number of pages added		
[]	Statement Where No Further Pages Added			
		further pages form a part of this Transmittal, then end this Transmittal with this page and he following item)		